

D. Romeo



RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/716,147

DATE: 05/20/2003
TIME: 07:51:00

Input Set : N:\CrF3\RULE60\09716147.RAW.txt
Output Set: N:\CRF4\05202003\I716147.raw

SEQUENCE LISTING

ENTERED

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Input Set : N:\Crf3\RULE60\09716147.RAW.txt
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43 (C) REFERENCE/DOCKET NUMBER: 47176
 44 (ix) TELECOMMUNICATION INFORMATION:
 45 (A) TELEPHONE: 617-523-3400
 46 (B) TELEFAX: 617-523-6440
 47 (2) INFORMATION FOR SEQ ID NO: 1:
 48 (i) SEQUENCE CHARACTERISTICS:
 49 (A) LENGTH: 98 amino acids
 50 (B) TYPE: amino acid
 51 (C) STRANDEDNESS: single
 52 (D) TOPOLOGY: linear
 53 (ii) MOLECULE TYPE: protein
 54 (v) FRAGMENT TYPE: internal
 55 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 56 Met Lys Ala Val Gly Ala Trp Leu Leu Cys Leu Leu Leu Gly Leu
 57 1 5 10 15
 58 Ala Leu Gln Gly Ala Ala Ser Arg Ala His Gln His Ser Met Glu Ile
 59 20 25 30
 60 Arg Thr Pro Asp Ile Asn Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg
 61 35 40 45
 62 Pro Val Gly Arg Phe Gly Arg Arg Ala Ala Pro Gly Asp Gly Pro
 63 50 55 60
 64 Arg Pro Gly Pro Arg Arg Val Pro Ala Cys Phe Arg Leu Glu Gly
 65 65 70 75 80
 66 Ala Glu Pro Ser Arg Ala Leu Pro Gly Arg Leu Thr Ala Gln Leu Val
 67 85 90 95
 68 Gln Glu
 69 (2) INFORMATION FOR SEQ ID NO: 2:
 70 (i) SEQUENCE CHARACTERISTICS:
 71 (A) LENGTH: 294 base pairs
 72 (B) TYPE: nucleic acid
 73 (C) STRANDEDNESS: double
 74 (D) TOPOLOGY: linear
 75 (ii) MOLECULE TYPE: cDNA
 76 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
 77 ATGAAGGC GG TGGGGC CTG GCT CCT CTG C TGCT GCT G C TGGC CT GG CCT GCAG GGG 60
 78 GCTGCC AGCA GAGCCACCA GCACTCCATG GAGATCCGCA CCCCCGACAT CAACCCTGCC 120
 79 TGGTACGCRG GCCGTGGGAT CGCGCCCGTG GGCGCCTTCG GCGGGCGAAG AGCTGCCCYG 180
 80 GGGGACGGAC CCAGGCCCTGG CCCCGGGCGT GTGCCGGCCT GCTTCCGCCT GGAAGGCGGY 240
 81 GCTGAGCCCT CCCGAGCCCT CCCGGGGCGG CTGACGGCCC AGCTGGTCCA GGAA 294
 82
 83 (2) INFORMATION FOR SEQ ID NO: 3:
 84 (i) SEQUENCE CHARACTERISTICS:
 85 (A) LENGTH: 29 amino acids
 86 (B) TYPE: amino acid
 87 (C) STRANDEDNESS: single
 88 (D) TOPOLOGY: linear
 89 (ii) MOLECULE TYPE: protein
 90 (v) FRAGMENT TYPE: internal
 91 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
 92 Ser Arg Ala His Gln His Ser Met Glu Ile Arg Thr Pro Asp Ile Asn
 93

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94 1 5 10 15
95 Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro Val Gly
96 20 25
98 (2) INFORMATION FOR SEQ ID NO: 4:
99 (i) SEQUENCE CHARACTERISTICS:
100 (A) LENGTH: 19 amino acids
101 (B) TYPE: amino acid
102 (C) STRANDEDNESS: single
103 (D) TOPOLOGY: linear
104 (ii) MOLECULE TYPE: protein
105 (v) FRAGMENT TYPE: internal
106 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
107 Thr Pro Asp Ile Asn Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro
108 1 5 10 15
109 Val Gly Arg
111 (2) INFORMATION FOR SEQ ID NO: 5:
112 (i) SEQUENCE CHARACTERISTICS:
113 (A) LENGTH: 31 amino acids
114 (B) TYPE: amino acid
115 (C) STRANDEDNESS: single
116 (D) TOPOLOGY: linear
117 (ii) MOLECULE TYPE: protein
118 (v) FRAGMENT TYPE: internal
119 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
120 Ser Arg Ala His Gln His Ser Met Glu Ile Arg Thr Pro Asp Ile Asn
121 1 5 10 15
122 Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro Val Gly Arg Phe
123 20 25 30
125 (2) INFORMATION FOR SEQ ID NO: 6:
126 (i) SEQUENCE CHARACTERISTICS:
127 (A) LENGTH: 32 amino acids
128 (B) TYPE: amino acid
129 (C) STRANDEDNESS: single
130 (D) TOPOLOGY: linear
131 (ii) MOLECULE TYPE: protein
132 (v) FRAGMENT TYPE: internal
133 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
134 Ser Arg Ala His Gln His Ser Met Glu Ile Arg Thr Pro Asp Ile Asn
135 1 5 10 15
136 Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro Val Gly Arg Phe Gly
137 20 25 30
139 (2) INFORMATION FOR SEQ ID NO: 7:
140 (i) SEQUENCE CHARACTERISTICS:
141 (A) LENGTH: 33 amino acids
142 (B) TYPE: amino acid
143 (C) STRANDEDNESS: single
144 (D) TOPOLOGY: linear
145 (ii) MOLECULE TYPE: protein
146 (v) FRAGMENT TYPE: internal

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147 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
148 Ser Arg Ala His Gln His Ser Met Glu Ile Arg Thr Pro Asp Ile Asn
149 1 5 10 15
150 Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro Val Gly Arg Phe Gly
151 20 25 30
152 Arg
154 (2) INFORMATION FOR SEQ ID NO: 8:
155 (i) SEQUENCE CHARACTERISTICS:
156 (A) LENGTH: 20 amino acids
157 (B) TYPE: amino acid
158 (C) STRANDEDNESS: single
159 (D) TOPOLOGY: linear
160 (ii) MOLECULE TYPE: protein
161 (v) FRAGMENT TYPE: internal
162 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
163 Thr Pro Asp Ile Asn Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro
164 1 5 10 15
165 Val Gly Arg Phe
166 20
168 (2) INFORMATION FOR SEQ ID NO: 9:
169 (i) SEQUENCE CHARACTERISTICS:
170 (A) LENGTH: 21 amino acids
171 (B) TYPE: amino acid
172 (C) STRANDEDNESS: single
173 (D) TOPOLOGY: linear
174 (ii) MOLECULE TYPE: protein
175 (v) FRAGMENT TYPE: internal
176 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
177 Thr Pro Asp Ile Asn Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro
178 1 5 10 15
179 Val Gly Arg Phe Gly
180 20
182 (2) INFORMATION FOR SEQ ID NO: 10:
183 (i) SEQUENCE CHARACTERISTICS:
184 (A) LENGTH: 22 amino acids
185 (B) TYPE: amino acid
186 (C) STRANDEDNESS: single
187 (D) TOPOLOGY: linear
188 (ii) MOLECULE TYPE: protein
189 (v) FRAGMENT TYPE: internal
190 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
191 Thr Pro Asp Ile Asn Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro
192 1 5 10 15
193 Val Gly Arg Phe Gly Arg
194 20
196 (2) INFORMATION FOR SEQ ID NO: 11:
197 (i) SEQUENCE CHARACTERISTICS:
198 (A) LENGTH: 87 base pairs
199 (B) TYPE: nucleic acid

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200	(C) STRANDEDNESS: double	
201	(D) TOPOLOGY: linear	
202	(ii) MOLECULE TYPE: cDNA	
203	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:	
204	AGCAGAGCCC ACCAGCACTC CATGGAGATC CGCACCCCCG ACATCAACCC TGCCTGGTAC	60
205	GCRGGCCGTG GGATCCGGCC CGTGGGC	87
207	(2) INFORMATION FOR SEQ ID NO: 12:	
208	(i) SEQUENCE CHARACTERISTICS:	
209	(A) LENGTH: 57 base pairs	
210	(B) TYPE: nucleic acid	
211	(C) STRANDEDNESS: double	
212	(D) TOPOLOGY: linear	
213	(ii) MOLECULE TYPE: cDNA	
214	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:	
215	ACCCCCGACA TCAACCCTGC CTGGTACGCR GGCGTGGGA TCCGGCCCGT GGGCCGC	57
217	(2) INFORMATION FOR SEQ ID NO: 13:	
218	(i) SEQUENCE CHARACTERISTICS:	
219	(A) LENGTH: 93 base pairs	
220	(B) TYPE: nucleic acid	
221	(C) STRANDEDNESS: double	
222	(D) TOPOLOGY: linear	
223	(ii) MOLECULE TYPE: cDNA	
224	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:	
225	AGCAGAGCCC ACCAGCACTC CATGGAGATC CGCACCCCCG ACATCAACCC TGCCTGGTAC	60
226	GCRGGCCGTG GGATCCGGCC CGTGGGCCGC TTC	93
228	(2) INFORMATION FOR SEQ ID NO: 14:	
229	(i) SEQUENCE CHARACTERISTICS:	
230	(A) LENGTH: 96 base pairs	
231	(B) TYPE: nucleic acid	
232	(C) STRANDEDNESS: double	
233	(D) TOPOLOGY: linear	
234	(ii) MOLECULE TYPE: cDNA	
235	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:	
236	AGCAGAGCCC ACCAGCACTC CATGGAGATC CGCACCCCCG ACATCAACCC TGCCTGGTAC	60
237	GCRGGCCGTG GGATCCGGCC CGTGGGCCGC TTCCGGC	96
239	(2) INFORMATION FOR SEQ ID NO: 15:	
240	(i) SEQUENCE CHARACTERISTICS:	
241	(A) LENGTH: 99 base pairs	
242	(B) TYPE: nucleic acid	
243	(C) STRANDEDNESS: double	
244	(D) TOPOLOGY: linear	
245	(ii) MOLECULE TYPE: cDNA	
246	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:	
247	AGCAGAGCCC ACCAGCACTC CATGGAGATC CGCACCCCCG ACATCAACCC TGCCTGGTAC	60
248	GCRGGCCGTG GGATCCGGCC CGTGGGCCGC TTCCGGCGG	99
250	(2) INFORMATION FOR SEQ ID NO: 16:	
251	(i) SEQUENCE CHARACTERISTICS:	
252	(A) LENGTH: 60 base pairs	
253	(B) TYPE: nucleic acid	

RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:29; N Pos. 20
Seq#:30; N Pos. 3,12
Seq#:31; N Pos. 15,16
Seq#:32; N Pos. 23
Seq#:35; N Pos. 3
Seq#:36; N Pos. 3,9,18,24
Seq#:37; N Pos. 15,21
Seq#:73; Xaa Pos.10,11,21,22
Seq#:74; Xaa Pos.3,5,10
Seq#:114; Xaa Pos.43,80
Seq#:115; Xaa Pos.43,80
Seq#:116; Xaa Pos.43,80
Seq#:117; Xaa Pos.43,80

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/716,147

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Input Set : N:\Crf3\RULE60\09716147.RAW.txt
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L:24 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:25 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:30 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1)(vii)
L:32 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1)(vii)
L:34 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1)(vii)
L:36 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1)(vii)
L:38 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1)(vii)
L:1140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:0
M:341 Repeated in SeqNo=73
L:1166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:0
L:1990 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114 after pos.:146
M:341 Repeated in SeqNo=114
L:2022 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:115 after pos.:32
M:341 Repeated in SeqNo=115
L:2050 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:146
M:341 Repeated in SeqNo=116
L:2082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:117 after pos.:32
M:341 Repeated in SeqNo=117